

CLAIMS

1. A display apparatus comprising: a casing in which a first lower vent and a first upper vent are formed; a liquid crystal display part that is arranged on a front surface side in the casing; a first power supply part that is arranged on a rear surface side in the casing and supplies a power source to a backlight of the liquid crystal display part; and a first cooling fan that is arranged on the rear surface side in the casing so as to be located near the first upper vent,
- wherein a first circuit board included in the first power supply part is so arranged as to be tilted with respect to a first side surface of the casing.

2. The display apparatus according to claim 1,
- wherein a first partition plate is provided adjacent to the first cooling fan and the first power supply part, wherein a first opening is provided in the first partition plate, and wherein suction air suctioned by the first cooling fan enters through the first lower vent, passes through the first opening, a vicinity of the first power supply part, and the first cooling fan, and then is discharged through the first upper vent.

3. The display apparatus according to claim 1,
- wherein a second upper vent is provided in the casing, wherein a second power supply part is provided which is arranged on the rear surface side in the casing and supplies a power source to a driving part of the liquid crystal display part, wherein a second cooling fan is provided on the rear surface side in the casing so as to be located near the second upper vent, and wherein a second circuit board included in the second power supply part is so arranged as

to be tilted with respect to a second side surface of the casing which second side surface faces the first side surface.

4. The display apparatus according to claim 3,

5 wherein a second partition plate is provided adjacent to the second cooling fan and the second power supply part, wherein a second opening is provided in the second partition plate, and wherein first suction air suctioned by the second cooling fan enters through the first lower vent, passes through the second opening, a vicinity of the second power supply part, and the second cooling fan, and then is discharged through the second upper vent.

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5. The display apparatus according to claim 4,

wherein a second lower vent is formed in the casing so as to be located below the second power supply part, and wherein second suction air suctioned by the second cooling fan enters through the second lower vent, passes through a vicinity of the second power supply part and the second cooling fan, and then is discharged through the second upper vent.

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6. A display apparatus comprising: a main body that is formed in a substantially box-like shape and has a first opening formed in a rear surface side thereof; a liquid crystal display part that is arranged on a front surface side in the main body; a board assembly that is arranged in the main body and outputs an image signal to the liquid crystal display part; a shield plate that covers the board assembly; and a hard disc drive that is fixed to the shield plate and performs data reading and writing,

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wherein the hard disc drive is so provided as to be removable through the first opening.

7. The display apparatus according to claim 6,

wherein a cover is provided which covers the first opening, and wherein the cover is so provided as to be removable from the main body.

5 8. The display apparatus according to claim 6,

wherein a reinforcing plate is provided which is in contact with opposing inner surfaces of the main body, wherein a mounting plate is provided which is supported by the reinforcing plate, and wherein a circuit board included in the board assembly is supported by the mounting plate.

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9. The display apparatus according to claim 8,

wherein a second opening is formed in the shield plate so as to be located below the hard disc drive, wherein a memory is fixed to the circuit board so as to be located below the second opening, and wherein the memory is so provided as to be removable.

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10. A display apparatus comprising: a box-like main body in which a first opening

is formed; a liquid crystal panel that is arranged in the main body; a first connector that supplies a power source for the liquid crystal panel and has a conductive pin or a conductive tube formed on a front surface side thereof in a predetermined shape; a first fixing plate that
20 fixes the first connector so that a rear surface side of the first connector protrudes into the main body through the first opening,

wherein the first fixing plate is removably fixed to the main body so that the front surface side of the first connector is exposed.

11. The display apparatus according to claim 10,

wherein a power switch is provided which is electrically connected to the first connector, wherein the first fixing plate fixes the power switch so that a rear surface side of the power switch protrudes into the main body through the first opening; and wherein the first
5 fixing plate is removably fixed to the main body so that a front surface side of the power switch is exposed.

12. The display apparatus according to claim 11,

wherein a first vertical wall is formed in the main body, wherein the first opening is
10 formed in the first vertical wall, wherein a first horizontal portion, a first vertical portion, a pawl, a second opening, and a third opening are formed in the first fixing plate, wherein the first connector is inserted in and then fixed in the second opening, wherein the power switch is inserted in and then fixed in the third opening, wherein the first horizontal portion is fixed to a rear portion of the main body with a first fastening component, and wherein the pawl is
15 stuck in and then fixed to the first vertical wall located near the first opening.

13. The display apparatus according to claim 10,

wherein a fourth opening is formed in the main body, wherein there are provided: a second connector that has a second conductive tube formed on a front surface side thereof in a
20 predetermined shape and that is electrically connected to the first connector; and a second fixing plate that fixes the second connector so that a rear surface side of the second connector protrudes into the main body through the fourth opening, and wherein the second fixing plate is removably fixed to the main body so that the front surface side of the second connector is exposed.

14. The display apparatus according to claim 13,

wherein a second vertical wall is formed in the main body, wherein the fourth opening is formed in the second vertical wall, wherein a second horizontal portion, a second vertical portion, a bending portion, and a fifth opening are formed in the second fixing plate, wherein the second connector is inserted in and then fixed in the fifth opening, wherein the second horizontal portion is fixed to a rear portion of the main body with a second fastening component, and wherein the bending portion is fixed so that the bending portion comes into contact with an inner surface of the second vertical wall located near the fourth opening.

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15. A display apparatus comprising: a load part that has at least a display part; a first power supply part that supplies a power source to the load part; a control part that is supplied with a power source by the first power supply part and controls the load part; a monitoring part that monitors the load part and the control part; and a recovery part that controls the first power supply part,

wherein, when the monitoring part detects abnormality of the load part and/or the control part, the recovery part stops the supply of the power sources to the load part and the control part by the first power supply part.

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16. The display apparatus according to claim 15,

wherein, when the monitoring part detects that at least one of a temperature of the load part or the control part, a voltage of the load part, and an operation of the control part is abnormal, the recovery part stops the supply of the power sources to the load apart and the control part by the first power supply part.

17. The display apparatus according to claim 15,
wherein, when a predetermined period elapses after the supply of the power sources is
stopped, the recovery part restarts the supply of the power sources to the load part and the
5 control part by the first power supply part.

18. The display apparatus according to claim 15,
wherein a second power supply part is provided whose input side is connected to a
power plug, wherein an input side of the first power supply part is connected to the power
10 plug, and wherein an output side of the second power supply part is connected to the recovery
part.